

Meeting The Geospatial Data Challenges of A New Era

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Data Quality can be effectively managed when you know...

- Where you are (the current state of your data)
- Where you need be (the desired state of your data)

The key is to determine the **exact business requirements** to define quantitative quality metrics

Which rules are mandatory\optional with acceptable conformance levels for each rule







Automated QA\QC Validation & Cleanup























Change Detection Conflation









CAD & Asset Validation









3,200 Different Data Providers

QA\QC Rules Validation

Schema Mapping Change Detection

Manual Review

Database Update

Over 90% Automated with







Rules for Spatial Advantage ™

Data Validation

Automate manual, time-consuming, subjective QA tasks. Certification required for proof of data quality (SLA's, legislation)

Data Integration

Maximize ROI through re-use, integration of data across the enterprise

Data Enhancement

Automate cleaning tasks, create new data, construct repeatable, non-subjective corrective actions.

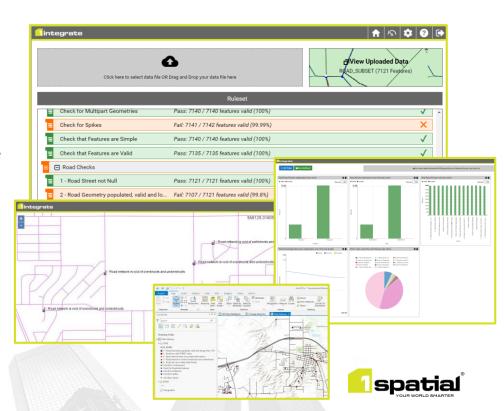


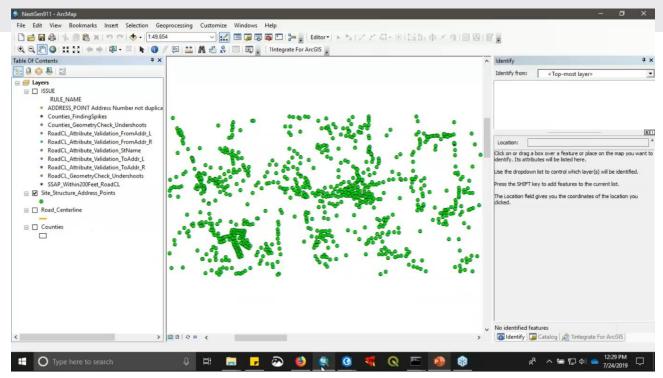


State of Maryland Use Case – NextGen911 Validation As A Service

- Creating Statewide Database for Addresses, Centerlines, PSAP, etc
- Counties Responsible for data
- State Providing Validation Service to validate county data to NENA Standard
- Using 1Integrate and Data Gateway





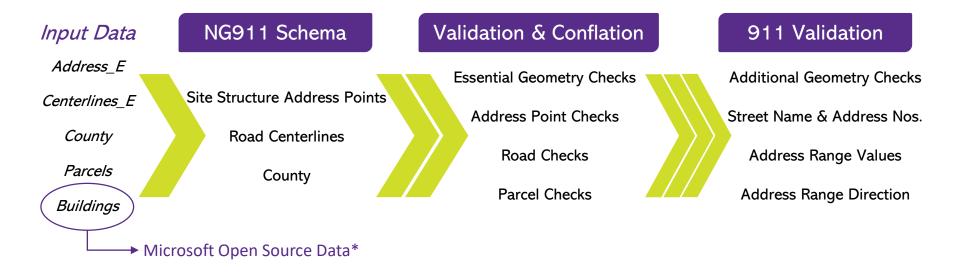


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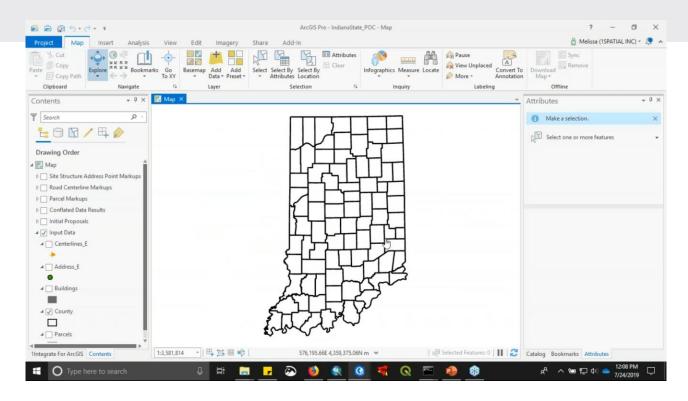


Indiana State Data









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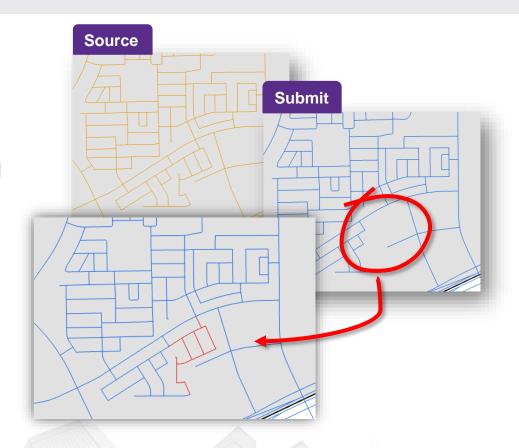




Implementing Change Detection Processes in Data Governance

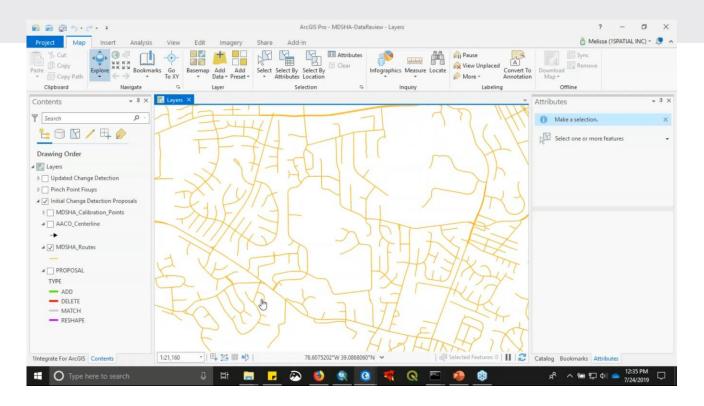
- Data submission from City to County to State to Country
- Schema incompatibility
- Representation mismatch
- Build rules applicable to point, line, and polygon assets

Use 1Integrate to automate the process of identifying and then updating *only* what has changed.









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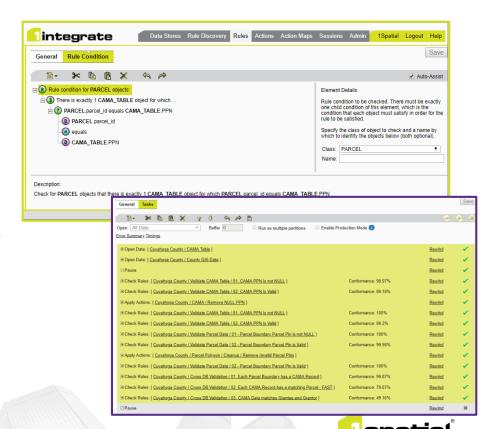




CAMA\GIS Cross System Validation - Cuyahoga County, Ohio

- CAMA\GIS Systems operate in Siloed Environments
 - Out Synced
 - Missing Records
- Using 1Integrate
 - Connect to both sources
 - Validate to identify missing records in either system
 - Validate systems are in sync
 - Can facilitate the attribute updates in the GIS to match CAMA





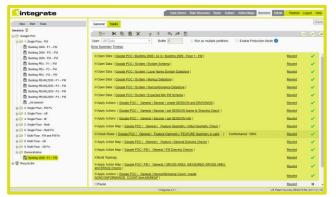
Google Real-Estate World Wide Services

CAD

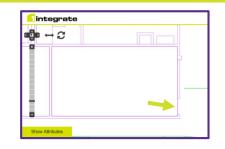
- CAD Drawings must be aligned
- Spaces must be closed
- · Rooms must have openings
- · Doors are on correct layers

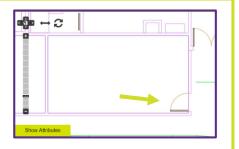
TRIRIGA

- People must have an assigned room
- People Assigned Room exists in Space Table
- People must not be in common spaces
- The number of people who people occupy a space must be less than the capacity













Caltrans – TAMS Data Quality – Use Case

- CalTrans implementing a Transportation Asset Management System
 - Identify the state of their Existing Asset Systems
- Contracted with Gartner\1Spatial to assess Asset Systems
- 1Integrate is being used to validate
 - Pavement, Culverts, Project Mgt, LRS, Bridges, etc







THANK YOU

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Additional webinars and use cases can be found at https://lspatial.com/us/on-demand-webinars/

